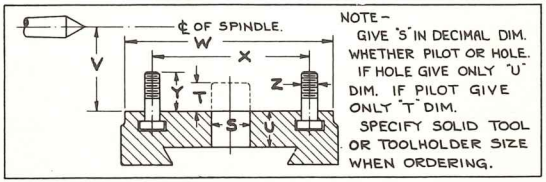
Enco Turret Tool Posts Save Valuable Set up Time

ENCO *Compound Replacement* LATHE TURRETS

MODEL CR-6

These turrets allow the use of larger tools and tool holders than can be used in the Standard or Heavy Duty models. They replace the entire compound where it is not needed for angular turning and provide a more rigid tool mounting thereby. The same features found in Standard and Heavy Duty Turrets are incorporated in these Compound Replacement models, including 12 position indexing and consistent accuracy in re-indexing. When ordering, complete chart shown below.

Model No.	Turret Block Size	Max. Size Solid Tool Height	Max. Size Tool-holder	Ship. Wt.
CR-3½R	3½″ sq. x 2 3/16″ th.	⅞″	#0	16 #
CR-4½R	4½″ sq. x 2¾″ th.	1″	#1	26 #
CR-6	6″ sq. x 3″ th.	1¼″	#2	58 #
CR-7	6½″ sq. x 3¾″ th.	1½″	#3	85 #
CR-8	7″ sq. x 4¼″ th.	1¾″	#4	115 #
CR-9	7½″ sq. x 4¾″ th.	2″	#5	160 #

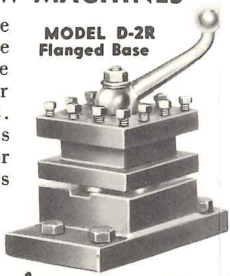


ENCO *Cross-Slide* TURRETS FOR TURRET LATHES AND SCREW MACHINES

MODEL 4½-CT

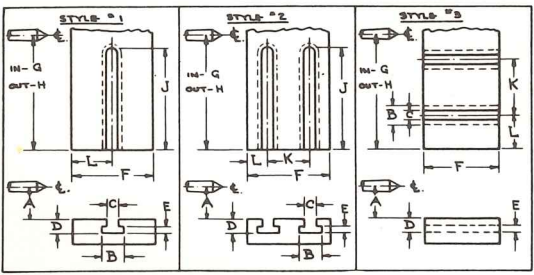
These turrets are used to replace worn or inaccurate equipment on your present machines. The same features found in Standard or Heavy Duty Turrets are incorporated in these models. 12 position indexing and repetitive accuracy is assured. Two cam locking lever models and six screw locking lever models give a complete selection.

MODEL D-2R
Flanged Base



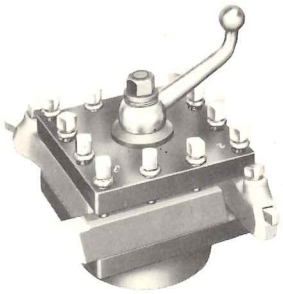
Model No.	Turret Block Size	Max. Size Solid Tool Height	Max. Size Tool-holder	Ship. Wt.
D-1R	3½″ sq. x 2 3/16″ th.	⅞″	# 0	12 #
D-2R	4½″ sq. x 2¾″ th.	1″	# 1	24 #
D-3	6″ sq. x 3″ th.	1¼″	# 2	55 #
D-4	6½″ sq. x 3¾″ th.	1½″	# 3	80 #
D-5	7″ sq. x 4¼″ th.	1¾″	# 4	120 #
D-6	7½″ sq. x 4¾″ th.	2″	# 5	140 #
3½-CT	3½″ sq. x 1¾″ th.	½″ sq.	—	12 #
4½-CT	4½″ sq. x 2¼″ th.	¾″ sq.	—	24 #

When ordering, please give style of cross slide and also size of solid tool or tool holder to be used.



ENCO *Standard* TURRET TOOL POSTS

For Bench and Engine Lathes



MODEL 6-S

Multiple tooling is the answer to increased lathe production at lower cost.

All Enco Turret Tool Posts are of steel construction hardened to resist wear and maintain their built-in accuracy.

They all provide 12 position indexing which permits three working positions for each tool. This feature permits the use of standard tools without costly regrinding, in addition to allowing each tool to perform more than one operation

Indexing mechanism is self-contained and equalizer spring prevents any dirt from entering mechanism from the top.

Consistent accuracy is assured since Enco Turrets will reindex to within plus or minus .0005".

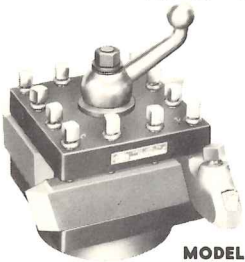
Model	"A" Dim. Range(‡)	Tool Size Range	Tool Block Size	Ship. Wt.
2½-S	¾" to 1 5/16"	¼" to ⅜"	2½" sq. x 1¼" th.	4 #
3½-S	1 5/16" to 1¾"	⅜" to ½"	3½" sq. x 1¾" th.	9 #
3½-R	1 3/16" to 1 15/16"	⅝" to ⅞" or # 0 toolholder	3½" sq. x 2 3/16" th.	9 #
4½-S	1 5/16" to 2¼"	⅝" to ¾"	4½" sq. x 2¼" th.	15 #
4½-R	1½" to 2¼"	¾" to 1" or # 1 toolholder	4½" sq. x 2¾" th.	17 #
6-S	1 11/16" to 2⅝"	⅞" to 1¼" or # 2 toolholder	6" sq. x 3" th.	33 #

(‡) Minimum "A" Dim. shown is based on use with minimum tool size listed. Larger tools must have correspondingly larger "A" dimension of lathe. (See Chart at right.)

Available either with machinable base or machined to specifications as shown in chart (to right).

ENCO *Heavy Duty* LATHE TURRET TOOL POSTS

For 16" to 36" Engine Lathes



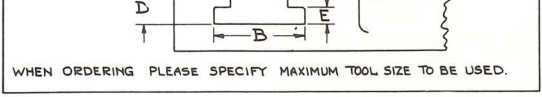
MODEL HD-4

These turrets are designed for the heavier 16" to 36" lathes and are capable of taking the strain of hogging cuts at higher speeds. The same features found in Enco Standard Turrets are incorporated in these Heavy Duty Turrets in addition to their heavier construction, including 12 position indexing and consistent accuracy.

Model	"A" Dim. Range(‡)	Tool Size Range	Tool Block Size	Ship. Wt.
HD-1	1⅝" to 2½"	¾" to 1" or #1 toolholder	4½" sq. x 3" th.	21 #
HD-2	2" to 3"	1" to 1½" or #2 or #3 toolholder	6½" sq. x 3¾" th.	55 #
HD-3	2⅜" to 3⅝"	1¼" to 1¾" or #4 toolholder	7" sq. x 4¼" th.	61 #
HD-4	2¾" to 3⅞"	1½" to 2" or #5 toolholder	7½" sq. x 4¾" th.	82 #

(‡) Minimum "A" Dim. shown is based on use with minimum tool size listed. Larger tools must have correspondingly larger "A" dimension of lathe. (See chart below.)

Available either with machinable base or machined to specifications as shown in chart below.



WHEN ORDERING PLEASE SPECIFY MAXIMUM TOOL SIZE TO BE USED.

WHICH SHOWS TYPICAL APPLICATION PHOTOS OF MANY OF ENCO'S

ENCO *Self-Indexing* CAM LOCKING TURRETS

For 10" to 18" Bench or Engine Lathes

MODEL 4½-C

Are of all steel construction to resist wear and retain their built-in accuracy.

All Enco Turrets provide 12 position indexing which permits the use of standard tools without costly regrinding, in addition to allowing each tool to perform more than one operation.

The cam locking handle positively locks turret securely in place with only moderate upward pressure. Entire cycle of unlocking, indexing and locking can be done with one hand, leaving the other hand free to perform simultaneous operations.

Indexing mechanism is self-contained and equalizer spring prevents any dirt entering mechanism from top. Consistent accuracy is assured since Enco Turrets will reindex to within plus or minus .0005".

Model	"A" Dim. Range(‡)	Tool Size Range	Tool Block Size	Ship. Wt.
3½-C	15/16" to 1¾"	⅜" to ½"	3½" sq. x 1¾" th.	9 #
4½-C	15/16" to 2¼"	⅝" to ¾"	4½" sq. x 2¼" th.	18 #

(‡) Minimum "A" Dim. shown is based on use with minimum tool size listed. Larger tools must have correspondingly larger "A" dimension of lathe. (See chart at left.)

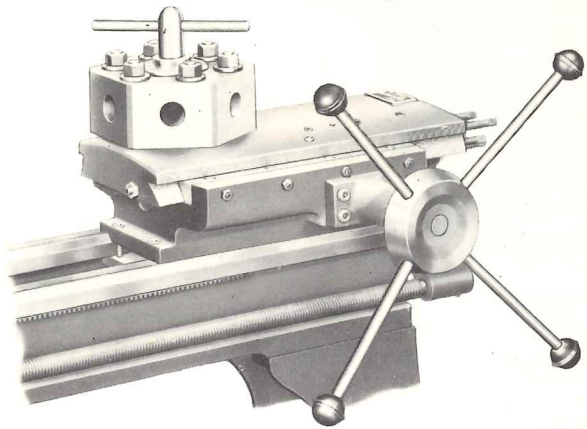
Available either with machinable base or machined to specifications as shown in chart at left.

82-117

Enco Self-Indexing HEXTURRET for Lower Production Costs and Speedier Output

ENCO *Self-Indexing* HEXTURRET

For 9" to 16" Bench or Engine Lathes



MODEL 425

A precision conversion unit which will enable you to do precise repetitive work on your bench or engine lathe faster and better. The large hexagon head bores out to receive straight shank tools. Straight shank tool holders with No. 1 or 2 Morse taper sockets can be used in tool holes or flanged tools can be mounted on hexagon faces. External vise grip clamping on inside bed ways eliminates crawling and facilitates positioning.

Accurate indexing is assured by a hardened and ground tapered indexing pin traveling in a hardened and ground full bearing sleeve. The pin seats into hardened and ground tapered bushings pressed into the hexagon head.

Deep wide ground and spotted bearing surfaces minimize wear and retain accuracy.

82/117

WRITE FOR CATALOGUE NO. 53

Pilot wheel drive gives fast operation and sensitive control. Twin drive gears and racks give smoother operation to the slide and minimize the torsional strain on the slide, even under heavy cuts.

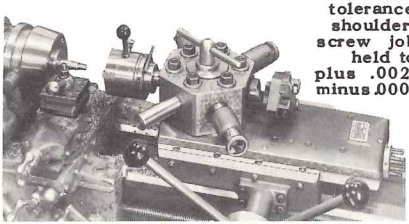
Adjustable gibs front and rear maintain constant accuracy even after long use.

All working parts hardened to resist wear and retain accuracy. Stop screws for travel adjustment of slide are also hardened and are easily adjusted.

Only one-quarter turn of handle locks or unlocks head. Spring loaded construction allows normal work to be done without locking head. Base of turret clears saddle wings for work close to headstock.

Model No.		#425	#651	#650
Hex. Head: Across Flats..	Inches	5⅝	5⅝	7
Face Dims. . .	"	2⅞ x 3	2⅞ x 3	3½ x 4
Tool Holes: Locking studs allow for finish bore to.	"	1	1	1¼
Slide Length	"	14¼	16½	16½
Total Travel	"	5¼	7½	7½
Working Travel	"	4¼	6½	6½
Maximum Diameter Tool Clearance Over Slide:				
9 inch lathes	"	2⅝	2¾	—
10 and 11 inch lathes	"	3⅛	3¼	—
12 inch lathes	"	3⅝	3¾	—
13 to 16 inch lathes	"	—	—	3⅝—6

- Custom built to fit all lathes from 9" to 16".
- Smooth, sensitive control with Pilot wheel drive through twin gears and racks.
- All bearing surfaces hand scraped.
- All parts of indexing mechanism hardened assuring accuracy.

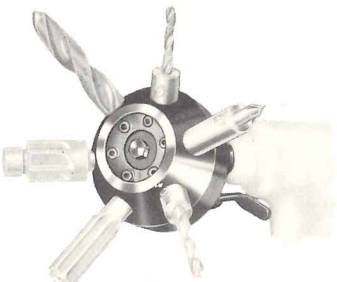


Close tolerance shoulder-screw job held to plus .002; minus .000.

WHICH SHOWS TYPICAL APPLICATION PHOTOS OF MANY OF ENCO'S

ENCO *Tailstock* TURRETS

With 6 Bored Tool Holes



MODEL B

Hardened tapered seat indexing mechanism. Made of Meehanite, a high grade, close grained semi-steel. Finger tip control. Tool holes are bored after entire unit is assembled, thereby insuring perfect alignment of tool holes with arbor. Model A and B furnished with Morse Taper Arbors only.

MODEL A Furnished with either No. 1 or No. 2 Morse Taper Arbor, and ⅝" dia. tool holes.

MODEL B Furnished with No. 2, 3 or 4 Morse Taper Arbor, and 1" dia. tool holes.

MODEL B-1 Furnished with 1" dia. straight shank arbor, and 1" dia. tool holes.

MODEL NO.....	A	B #2 & B #3	B #4 & B-1
Each.....			
Diameter of Head.....Inches	2½	5	5
Shipping Weight.....Pounds	3	12	12

For *Your Requirements In*

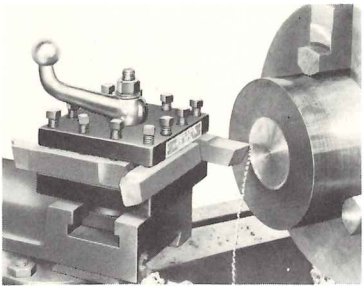
Enco LATHE TURRETS

Look to:

#308

Printed in U. S. A.

Here's an ENCO TURRET Saving TIME and MONEY ONE Tool Does the Work of 3



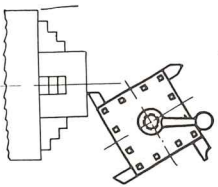
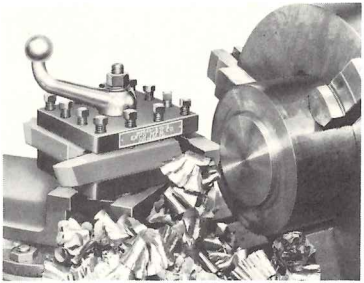


Photo No. 1—¾" square bit mounted in Model 4½-S turret used to face work. Same tool is indexed to position and used for turning as shown below.



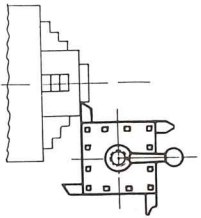
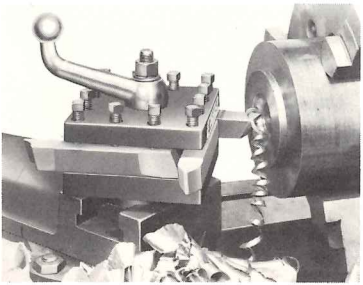


Photo No. 2 — Side of tool is used to take a 1" deep broad-face cut.



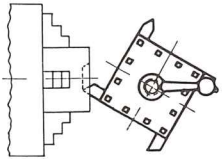


Photo No. 3 — Same tool shown in photos No. 1 and No. 2 being used for inside chamfer.

ENCO. Mfg. Co.
CHICAGO 39, ILL.